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G. Jayaswathi,

M.Phil. Scholar,

Kalasalingam Academy of Research and Education,

Krishnankovil, Tamil Nadu, India

jeyaswathi996@gmail.com

Synchronizing Education 4.0 with Multiple Intelligence Theory in Learning English- A Survey on   B. Tech Students

Abstract: Education 4.0 is a new paradigm in educational context in which it focuses on the innovative and maximizes the use of information, internet and technology. Education 4.0 will be more effective in accompanying Multiple Intelligence theory. This study explores to extent the students prefer this method and how they get benefited in learning English by this method. This study uses quantitative research in the form of survey to find out how the teacher uses Education 4.0 to satisfy their unique intelligence. The instrument of the data collected is through the questionnaire and the feedback of the students. The finding shows that they can acquire writing easily. There are also many challenges incorporating this in teaching English. Against all odds in promoting Education 4.0, the lecturers and students need to apply Education 4.0 in order to help the students compete in the technological era.

Keywords- Autonomous learning, Education 4.0, LSRW Unique skills, Multiple Intelligence Theory.

1. Introduction

Technology is growing fast. Education develops in hand in hand with the improvement of technology. During the Industrial 1.0, 2.0 and 3.0 the development of education does not combine the internet source for learning. The sources are books and the lectures given by the teachers. Students considered the teachers as the source of their knowledge .Now education combines the various sources to enhance the knowledge of the students at any cause. Technology has developed in such a manner it is available in or door step. Each student is unique in his style of learning. It is the teacher's duty to cater to their talents with the source available. Only then the teacher's role will be perceived as the mentors or facilitators.

2. Objectives

1. The aim of the research is to show adapting multiple intelligence theory in learning English language is better than traditional classroom approach

2. To show that students can easily acquire English as their second language by using Education 4.0 in Multiple Intelligence Theory

3. To know how far the students prefer this method

4. To show that the students are given special care individually when compared with the students in traditional class

3. Background of the Study

IQ factor theory takes just some of the learner's ability into consideration such as the linguistic, logical and mathematical abilities. This leads teacher to ignore other types of intelligence. Modern educational applications will be emphasized by MI domain. It is effective in various aspects. This includes improving student's achievement level and raising their interest towards learning content and using of MI as an entrance to teach in this method.

As most students use their mobile phones, the Education 4.0 tool can be implemented in order to satisfy their need.

4. Research question

1. What is the dominant MI profile among the B.Tech students in KARE?

2. Is Education 4.0 enhances MI of the students in learning English language?

3. Do students prefer learning through this way rather than traditional way of learning English in India?

4. Does this create impact in students in improving their language skills?

5. How far does the teacher's use this MI theory in classroom?

5. Hypotheses

1. Students prefer MI rather than treating all of them as same.

2. Students could enhance their command over English through Education 4.0 than with the regular classes using board.

3. It makes the students to get rid of boring classes.

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6. Literature Review

Technology and supported learning are the key traits of Education 4.0 according to the research done by Nierodzinska and Akyuz.. Digital education creates lack in digital culture, training and knowledge (Slausarczyk) The study of Artyushina in 2018 reveals that the mobile phones help to improve listening. New technological integration has not only

helped various fields to flourish and prosper tremendously, but also the field if education that has gained a new dimension unlike the traditional system of leaning. Since Internet is users friendly, it has been considered as the dominant web content says the researcher Flamia in her research of 2007. The forth industrial revolution makes unimaginable and rapid change in all the fields in 2017 which are reflected in agriculture, healthcare, business and education. Inventiveness and reducing the physical work serves the core stone.

Gardener anticipated that the potential utility of PCs during the time spent coordinating people to methods of direction is considerable and that the PC can be crucial facilitator in the real procedure of guideline. Kunjan has given another theoretical model of E-learning incorporating the hypothesis of various insight. Fault finders take a gander at a portion of the insight classifications, and question how Gardener can consider some as genuine insights, i.e. substantial kinesthetic, melodic, and spatial as really insight criteria, and not abilities or aptitudes . There are so many studies on the effectiveness of teaching methods based on Gardner's Multiple Intelligences Based on research done by Avila and Pahuski in 1999, instructional strategies based on Gardner's theory to learn academic language skills meaningfully increased the learning achievement of students who have difficulty in learning language skills. Xie, Lin and Abdi also in their researches said that using the theory of multiple intelligences in teaching, leads to higher academic achievement (Lin). Amstrong imagies that children with strong kinaesthetic Intelligence are demonstrating: "This is how I learn, teacher and if you don't teach me through my most natural learning channels, guess what? I'm going to do it anyway" (Amstrong). In this way MI is also suited to evaluate curriculum, but Gardener and Armstrong separate on how such evaluation can be accomplished.

7. Multiple Intelligence theory

Multiple intelligence theory became known not only in USA but also all around the world in 1980s.According to Gardener "In strong form multiple intelligence theory posits a small set of human intellectual potentials , perhaps as few in number, of which all individual are capable by virtue of their membership in the human species" (Gardener, 278). According to Gardener each person is able to develop each intelligent and some of the intelligence will be more developed than others. School has long privileged one or two forms of human intelligence – those involving language and logic – while ignoring the other powerful ways in which we can come to know the world (Gardener).

If the other intelligence is incorporated while learning English, we could be able to acquire LSRW easily, as it satisfies the different intelligence of the students. They may have different learning styles and different intelligence which the traditional classroom cannot cater. Now-a-days the teacher understands the students needs and organizes activities based on the student intelligence for learning language. Mostly in schools and as well as colleges the teacher have scold students because they mostly concentrate on the linguistic and logical intelligence. The trend is changing currently.

8. Types of intelligence

1. Verbal intelligence

2. Logical/Mathematical intelligence

3. Spatial/Visual intelligence

4. Kinaesthetic/Bodily intelligence

5. Musical intelligence

6. Inter-Personal intelligence

7. Intra-Personal intelligence
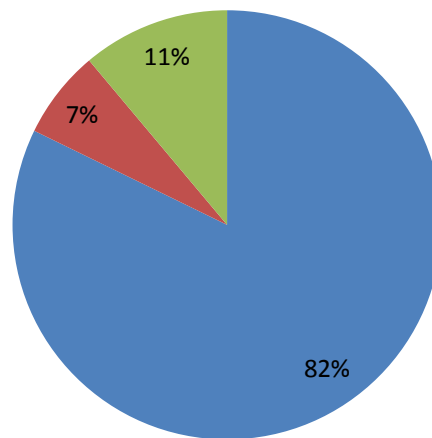
8. Naturalistic intelligence

9. Education 4.0

The development of industrial revolution 4.0 contributes to the development in the educational field. Sadiyoko reveals there is the term or platform for following the development in industrial revolution especially for educational context in which it is well-known as education 4.0 The term education 4.0 becomes a trend now-a-days. Education 4.0 reflects the learning innovation and makes use of information and technology in learning Fedman says that the one dystopian future trend could see students plugging in and a year or so later, unplugging fully qualified with all their learning being managed by machine- Life imitating the matrix, but potentially feasible .The teachers and students are able to make use of the development of information and technology to support the technology and learning process in this era.

10. Methods

The B.tech students of Kalasalingam University are taken as the subjects. 50students are provided with the questionnaire. They were explained about multiple intelligence theory and Education 4.0 and asked to fill in the questionnaire. They were tested with the multiple intelligence test in the mobile phones with the free test sample. 20 questions based on the study are given to arrive at a conclusion. The questionnaire has been given to test the hypothesis of the research. The questions are also set in such a way that the reason for the answer NO is obtained in order to find out the further scope of the research.

The research is based on the student's interest in following the new method in learning than the traditional method of learning. The students chosen for the researcher as they had recorded classes and also their assignments in English classroom through the mobile phones which are based on the new technologies.

Fig 1. Education 4.0

11. Findings and Results

37 students agreed that synchronizing Education 4.0 and Multiple Intelligence in learning English could be more useful in acquiring language. Students responded that using this method would be better than the traditional way of learning because the classes were captured and sent to them daily so that the students could look over it at any time they wished. In addition to the recorded classes, they were also provided with the links regarding the topics covered in the classes. The students felt easy to search more information in short duration. However this will be apt only in higher education classes whereas, this is difficult to be applied for the children of age group under 18 as they use to get distracted using mobile phones. 3 students answered that this is distracting and time consuming. 5 students answered that all type of Intelligence could not be met out by education 4.0. Researcher personally felt that all type of intelligence was not catered by the teachers by using education 4.0.

Visual intelligence, logical intelligence, musical intelligence, intra-personal and inter personal intelligence are possible to be catered by this method but the naturalistic intelligence is not given importance. It is found that most of the students had visual intelligence. This

might be the reason for the students to answer that this method caters to their intelligence. There are many challenges in implementing this method hence it is time consuming for the teachers and the students though it is beneficiary. The limitation of the study is that the researcher has not analysed which skill of the student has been improved in using this method? The further scope of the research is that the researcher can concentrate on the skill which has created more impact because of using this method. The research shall include more questions and can have included some interactive session so that the research purpose could have been in an effective manner.

12. Conclusion

Most of the students prefer this new method of integrating the Multiple Intelligence theory with Education 4.0. There are also cons in this method. The teachers find it difficult to categorize the students according to their intelligence hence, many students will have more than one type of intelligence and it is also time consuming. More effort has to be put in order to improve LSRW. It could be followed for one or two sessions in the classes but the whole class activities could not be based on this method. The method could be an additional to the new innovative method. More concentration should be given to speaking skills than writing and listening skill as these skills are given importance in their lower classes itself. Only some matriculations, CBSE, ICSE schools provide environment through which the English could be improved. The environment plays an important role in English language acquisition. This method could also be implemented in the pre-school activities also, by identifying their interest rather than treating them as a whole group.

Appendix

1.Do your teachers use Education 4.0 as a tool.? 1/2

2.Do you enjoy Education 4.0?1/2

3.Does this tool cater your multiple intelligence?1/2

4.Does education 4.0 impeding with MI helps in improving your speaking skill?1/2

5.Does this serve your need in English language classroom?1/2

6.Do you prefer chalk and talk method as a tool to be used in English language teaching?1/2

7.Is your unique talent helpful in learning?/2

8.Do you use gadgets in learning English language?1/2

9.Do you find this helpful in facing interview or conversing in English in public?1/2

1-Yes

2-No

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